

KK KK EEEEEEEEEE YY YY CCCCCCCCCC 000000 MM MM
KK KK EEEEEEEEEE YY YY CC CCCCCCCCCC 000000 MM MM
KK KK EE YY YY CC CCCCCCCCCC 000000 MM Mmmm Mmmm
KK KK EE YY YY CC CCCCCCCCCC 000000 MM Mmmm Mmmm
KK KK EE YY YY CC CCCCCCCCCC 000000 MM MM MM MM
KK KK EE YY YY CC CCCCCCCCCC 000000 MM MM MM MM
KK KK EEEEEEEEEE YY YY CCCCCCCCCC 000000 MM MM
KK KK EEEEEEEEEE YY YY CCCCCCCCCC 000000 MM MM
KK KK EE YY YY CC CCCCCCCCCC 000000 MM MM
KK KK EE YY YY CC CCCCCCCCCC 000000 MM MM
KK KK EEEEEEEEEE YY YY CCCCCCCCCC 000000 MM MM
KK KK EEEEEEEEEE YY YY CCCCCCCCCC 000000 MM MM

LL IIIII SSSSSSSS
LL IIIII SSSSSSSS
LL IIIII SS
LL IIIII SS
LL IIIII SS
LL IIIII SSSSSS
LL IIIII SSSSSS
LL IIIII SS
LL IIIII SS
LL IIIII SS
LL IIIII SSSSSSSS
LL IIIII SSSSSSSS

```
1 0001 0 XTITLE 'EDTSKEYCOM - get a keypad command'
2 0002 0 MODULE EDTSKEYCOM (
3 0003 0     IDENT = 'VO4-000'
4 0004 0     ) =
5 0005 1 BEGIN
6 0006 1 !
7 0007 1 ****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 ****
29 0029 1 !
30 0030 1 .
31 0031 1 ++
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1     Get a keypad command.
37 0037 1
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Bob Kushlis, CREATION DATE: April 7, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1     1-001 - Original. DJS 24-Feb-1981. This module was created by
45 0045 1     extracting routine EDT$$_GET_KPADCMD from module KEYTRAN.
46 0046 1     1-002 - Regularize headers. JBS 09-Mar-1981
47 0047 1     1-003 - Add return values. JBS 02-Oct-1981
48 0048 1     1-004 - Check one more return value and add a variable to call to
49 0049 1     EDT$$KPAD_INP. STS 21-Oct-1981
50 0050 1     1-005 - Set a flag if control C actually aborts something. JBS 25-May-1982
51 0051 1     1-006 - In NOKEYPAD mode copy control characters into the buffer. JBS 07-Jun-1982
52 0052 1     1-007 - Pass flag to EDT$$NXT_CMDCH so that it will accept repeat counts. STS 16-Jun-1982
53 0053 1     1-008 - Add reverse video to nokeypad command input. SMB 24-Jun-1982
54 0054 1     1-009 - New implementation of defined keys. JBS 12-Aug-1982
55 0055 1     1-010 - Add another control C check since a control C can occur
56 0056 1     in edt$$trn kstr. STS 24-Nov-1982
57 0057 1     1-011 - Don't call EDT$$ERA_MSGLN unnecessarily. JBS 20-Jan-1983
      ! Get a keypad command
      ! File: KEYCOM.BLI Edit: JBS1011
```

EDT\$KEYCOM
VO4-000

EDT\$KEYCOM - get a keypad command

: 58
: 59

0058 1 !--
0059 1

H 6
16-Sep-1984 00:42:18
14-Sep-1984 12:23:21

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]KEYCOM.BLI;1 Page (1)

EDT
VO4

```
; 61      0060 1 XSBTTL 'Declarations'  
; 62      0061 1  
; 63      0062 1 TABLE OF CONTENTS:  
; 64      0063 1  
; 65      0064 1  
; 66      0065 1 REQUIRE 'EDTSRC:TRAROUNAM';  
; 67      0504 1  
; 68      0505 1 FORWARD ROUTINE  
; 69      0506 1     EDT$GET_KPADCMD;  
; 70      0507 1  
; 71      0508 1  
; 72      0509 1 INCLUDE FILES:  
; 73      0510 1 !  
; 74      0511 1  
; 75      0512 1 REQUIRE 'EDTSRC:EDTREQ';  
; 76      0647 1  
; 77      0648 1 LIBRARY 'EDTSRC:KEYPADDEF';  
; 78      0649 1  
; 79      0650 1 !  
; 80      0651 1 MACROS:  
; 81      0652 1  
; 82      0653 1     NONE  
; 83      0654 1  
; 84      0655 1 EQUATED SYMBOLS:  
; 85      0656 1  
; 86      0657 1     NONE  
; 87      0658 1  
; 88      0659 1 OWN STORAGE:  
; 89      0660 1  
; 90      0661 1     NONE  
; 91      0662 1  
; 92      0663 1 EXTERNAL REFERENCES:  
; 93      0664 1  
; 94      0665 1     In the routine  
;               ! Get a keypad command
```

96 0666 1 ZSBTTL 'EDT\$SGET_KPADCMD - get a keypad command'
97 0667 1
98 0668 1 GLOBAL ROUTINE EDT\$SGET_KPADCMD . Get a keypad command
99 0669 1 =
100 0670 1
101 0671 1 ++
102 0672 1 FUNCTIONAL DESCRIPTION:
103 0673 1
104 0674 1 Get a keypad command. Characters are read and translated until a complete
105 0675 1 command is seen. The characters are handled as follows:
106 0676 1
107 0677 1 Keypad and control characters are translated, and if they end in a '.' then the
108 0678 1 command is complete.
109 0679 1
110 0680 1 Other characters are treated as insertions and always complete.
111 0681 1
112 0682 1 FORMAL PARAMETERS:
113 0683 1
114 0684 1 NONE
115 0685 1
116 0686 1 IMPLICIT INPUTS:
117 0687 1
118 0688 1 EDTSSC_CMD_BUF
119 0689 1 EDTSSA_CMD_BUF
120 0690 1 EDTSSG_KPAB
121 0691 1 EDTSSG_TIN ECHOFLG
122 0692 1 EDTSSG_MSGFLG
123 0693 1
124 0694 1 IMPLICIT OUTPUTS:
125 0695 1
126 0696 1 EDTSSA_CMD_END
127 0697 1 EDTSSG_CC_DONE
128 0698 1
129 0699 1 ROUTINE VALUE:
130 0700 1
131 0701 1 1 = ok, 0 = control C, 2 = end of journal file
132 0702 1
133 0703 1 SIDE EFFECTS:
134 0704 1
135 0705 1 NONE
136 0706 1
137 0707 1 --
138 0708 1
139 0709 2 BEGIN
140 0710 2
141 0711 2 EXTERNAL ROUTINE
142 0712 2 EDTSSC_REVID,
143 0713 2 EDTSSCHR_CC,
144 0714 2 EDTSSERA_MSGLN : NOVALUE,
145 0715 2 EDTSSNXT_CMDCH,
146 0716 2 EDTSSTRN_KSTR,
147 0717 2 EDTSSPUT_CMDCH : NOVALUE,
148 0718 2 EDTSSKPAD_INP;
149 0719 2
150 0720 2 EXTERNAL
151 0721 2 EDTSSC_CMD_BUF,
152 0722 2 EDTSSA_CMD_BUF,

| Turn on reverse video for nokeypad commands
| Check for control C
| Erase the message line
| Get the next command character
| Build the command buffer
| Put a character in the command buffer
| Auxiliary call to EDTSSCI_RDCMDLN

| Command buffer
| Pointer to next char in command buffer

```

153      0723 2      EDTSSA_CMD_END,
154      0724 2      EDTSSG_KPAD
155      0725 2      EDTSSG_CC_DONE,
156      0726 2      EDTSSG_TIN_ECHOFLG,
157      0727 2      EDTSSG_MSGFLG;

158      0728 2      LOCAL
159      0729 2      C
160      0730 2      RÉS TERM,
161      0731 2      SUCCEED,
162      0732 2      KEYS_SEEN;
163      0733 2
164      0734 2      KEYS_SEEN = 0;
165      0735 2
166      0736 2      !+ Loop until command is complete.
167      0737 2      !- BEGIN
168      0738 2
169      0739 2
170      0740 2      WHILE 1 DO
171      0741 3      BEGIN
172      0742 3      !+ Get the next command character. If the command was aborted, return.
173      0743 3      !- SUCCEED = EDTSSNXT_CMDCH (C, 1);
174      0744 3
175      0745 3      IF (.SUCCEED NEQ 1) THEN RETURN (.SUCCEED);
176      0746 3
177      0747 3      !+ Check for control C and abort the command.
178      0748 3      !- IF EDTSSCHK_CC ()
179      0749 3      THEN
180      0750 3      BEGIN
181      0751 3      !- IF EDTSSA_CMD_END = EDTSST_CMD_BUF;
182      0752 3
183      0753 3      IF EDTSSCHK_CC ()
184      0754 3      THEN
185      0755 4      BEGIN
186      0756 4      EDTSSA_CMD_END = EDTSST_CMD_BUF;
187      0757 4
188      0758 4      IF .KEYS_SEEN THEN EDTSSG_CC_DONE = 1;
189      0759 4
190      0760 4      RETURN (0);
191      0761 3      END;
192      0762 3
193      0763 3      KEYS_SEEN = 1;
194      0764 3      !+ Erase the message line and make sure we are in reverse video mode
195      0765 3      !- if this is a nokeypad command
196      0766 3
197      0767 3
198      0768 3
199      0769 3      IF ((.EDTSSG_MSGFLG NEQ 0) OR .EDTSSG_TIN_ECHOFLG) THEN EDTSSERA_MSGLN ();
200      0770 3
201      0771 3      IF ( NOT .EDTSSG_KPAD) THEN EDTSSSC_REVID ();
202      0772 3
203      0773 3      SELECTONEU .C OF
204      0774 3      SET
205      0775 3
206      0776 3      [0 TO 31] :
207      0777 3      !+ Control character: if in keypad mode, translate it.
208      0778 3      !- 
```

```
210 0780 3
211 0781 3 IF .EDT$SG_KPAD
212 0782 3 THEN
213 0783 4 BEGIN
214 0784 4
215 0785 4 IF EDT$STRN_KSTR (.C, 1, 0) THEN RETURN (1);
216 0786 4
217 0787 4 END
218 0788 3 ELSE
219 0789 4 BEGIN
220 0790 4 !+
221 0791 4 !+ In nokeypad mode, copy characters into the buffer.
222 0792 4 !-
223 0793 4
224 0794 4 IF (EDT$SKPAD_INP (.C, ASC_K_CR, RES_TERM) EQL 2) THEN RETURN (2);
225 0795 4
226 0796 4 EDT$SA_CMD-END = .EDT$SA_CMD_BUF;
227 0797 4 RETURN (1);
228 0798 3 END;
229 0799 3
230 0800 3 [ASC_K_DEL, K_KPAD_BASE TO K_KEY_MAX] :
231 0801 3 !+
232 0802 3 !+ DEL, keypad or function key: always translate.
233 0803 3 !-
234 0804 3
235 0805 3 IF EDT$STRN_KSTR (.C, 1, 0) THEN RETURN (1);
236 0806 3
237 0807 3 [OTHERWISE] :
238 0808 3 !+
239 0809 3 !+ Insertion character: make the command Ic^Z.
240 0810 3 !-
241 0811 3
242 0812 3 IF .EDT$SG_KPAD
243 0813 3 THEN
244 0814 4 BEGIN
245 0815 4 EDT$SPUT_CMDCH (%C'I', 0);
246 0816 4 EDT$SPUT_CMDCH (.C, 0);
247 0817 4 EDT$SPUT_CMDCH (ASC_K_CTRL_Z, 0);
248 0818 4 EDT$SA_CMD-END = .EDT$SA_CMD_BUF;
249 0819 4 RETURN (1);
250 0820 4 END
251 0821 3 ELSE
252 0822 4 BEGIN
253 0823 4 !+
254 0824 4 !+ In nokeypad mode, copy characters into the buffer.
255 0825 4 !-
256 0826 4
257 0827 4 IF (EDT$SKPAD_INP (.C, ASC_K_CR, RES_TERM) EQL 2) THEN RETURN (2);
258 0828 4
259 0829 4 EDT$SA_CMD-END = .EDT$SA_CMD_BUF;
260 0830 4 RETURN (1);
261 0831 3 END;
262 0832 3
263 0833 3 TES;
264 0834 3
265 0835 3 !+
266 0836 3 !+ Check for control C and abort the command.
```

EDTSKEY.COM
V04-000

EDTSKEYCOM - get a keypad command
EDTSSGET_KPADCMD - get a keypad command

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EDT
V04

```

267      0837 3 !-
268      0838 3
269      0839 3     IF EDTSSCHK_CC ()
270      0840 3     THEN
271      0841 4       BEGIN
272      0842 4       EDTSSA_CMD_END = EDTSSST_CMD_BUF;
273      0843 4
274      0844 4       IF .KEYS_SEEN THEN EDTSSG_CC_DONE = 1;
275      0845 4
276      0846 4       RETURN (0);
277      0847 3       END;
278      0848 3
279      0849 2       END;
280      0850 2
281      0851 2     RETURN (1);
282      0852 1     END;

```

! of routine EDTSSGET_KPADCMD

```
.TITLE EDT$KEYCOM EDT$KEYCOM - get a keypad command  
.IDENT \V04-000\
```

.EXTRN EDTSSSC REVID, EDTSSCHK CC
.EXTRN EDTSSERÄ_MSGLN, EDTSSNXT CMDCH
.EXTRN EDTSSTRN_KSTR, EDTSSPUT CMDCH
.EXTRN EDTSSKPAD INP, EDTSSST CMD BUF
.EXTRN EDTSSA_CMB BUF, EDTSSA_CMB END
.EXTRN EDTSSG_KPAD, EDTSSG_CC_DONE
.EXTRN EDTSSG_TIN ÉCHOFLG
.EXTRN EDTSSG_MSGFLG

.PSECT _EDTSCODE,NOWRT, SHR, PIC,2

ENTRY	EDTSS\$GET_KPADCMD, Save R2,R3,R4,R5,R6,R7,- R8,R9,R10	0668
MOVAB	EDTSSA_CMD_BUF, R10	
MOVAB	EDTSS\$KPAD_INP, R9	
MOVAB	EDTSS\$CHK_CC, R8	
MOVAB	EDTSS\$PUT_CMDCH, R7	
MOVAB	EDTSSA_CMD_END, R6	
MOVAB	EDTSSG_KPAD, R5	
SUBL2	#8, SP	
CLRL	KEYS_SEEN	0735
PUSHL	#1	0745
PUSHAB	C	
CALLS	#2, EDTSSNXT_CMDCH	
MOVL	R0, SUCCEED	
CMPL	SUCCEED, #1	0747
BEQL	2\$	
MOVL	SUCCEED, R0	
RET		
CALLS	#0, EDTSSCHK_CC	0753
BLBC	R0, 3\$	
BRW	16\$	
MOVL	#1, KEYS_SEEN	0763
TSTL	EDTSSG_MSGFLG	0769
BNEQ	4\$	
BLBC	EDTSSG_TIN_ECHOFLG, 5\$	

00000000G	00	00	FB 00064	4\$: CALLS #0, EDT\$ERA_MSGLN	
	07	65	E8 0006B	5\$: BLBS EDT\$G_KPAD, 6\$	0771
00000000G	00	00	FB 0006E	CALLS #0, EDT\$SC_REVID	
	52	6E	D0 00075	6\$: MOVL C, R2	0773
	1F	52	D1 00078	CMPL R2, #31	0776
		28	1A 0007B	BGTRU 10\$	
	11	65	E9 0007D	BLBC EDT\$G_KPAD, 8\$	0781
	7E	01	7D 00080	7\$: MOVQ #1, -(SP)	0785
00000000G	00	52	DD 00083	PUSHL R2	
	66	03	FB 00085	CALLS #3, EDT\$STRN_KSTR	
		50	E9 0008C	BLBC R0, 15\$	
		12	11 0008F	BRB 9\$	
	04	AE	9F 00091	8\$: PUSHAB RES_TERM	0794
		0D	DD 00094	PUSHL #13	
		52	DD 00096	PUSHL R2	
	69	03	FB 00098	CALLS #3, EDT\$SKPAD_INP	
	02	50	D1 0009B	CMPL R0, #2	
	4A	13	0009E	BEQL 13\$	
	66	6A	D0 000A0	MOVL EDT\$SA_CMD_BUF, EDT\$SA_CMD_END	0796
0000007F	8F	6C	11 000A3	9\$: BRB 17\$	0797
		52	D1 000A5	10\$: CMPL R2, #127	0800
0000012C	8F	D2	13 000AC	BEQL 7\$	
		52	D1 000AE	CMPL R2, #300	
000003E7	8F	09	1F 000B5	BLSSU 11\$	
		52	D1 000B7	CMPL R2, #999	
	18	C0	1B 000BE	BLEQU 7\$	
		65	E9 000C0	11\$: BLBC EDT\$G_KPAD, 12\$	0812
		7E	D4 000C3	CLRL -(SP)	0815
	49	8F	9A 000C5	MOVZBL #73, -(SP)	
	67	02	FB 000C9	CALLS #2, EDT\$PUT_CMDCH	
		7E	D4 000CC	CLRL -(SP)	0816
	67	52	DD 000CE	PUSHL R2	
		02	FB 000D0	CALLS #2, EDT\$PUT_CMDCH	
	7E	1A	7D 000D3	MOVQ #26, -(SP)	0817
	67	02	FB 000D6	CALLS #2, EDT\$PUT_CMDCH	
		13	11 000D9	BRB 14\$	0822
	04	AE	9F 000DB	12\$: PUSHAB RES_TERM	0827
		0D	DD 000DE	PUSHL #13	
		52	DD 000E0	PUSHL R2	
	69	03	FB 000E2	CALLS #3, EDT\$SKPAD_INP	
	02	50	D1 000E5	CMPL R0, #2	
	04	12	000E8	BNEQ 14\$	
	50	02	D0 000EA	13\$: MOVL #2, R0	
		04	000ED	RET	
	50	01	D0 000EE	14\$: MOVL #1, R0	0830
	66	6A	D0 000F1	MOVL EDT\$SA_CMD_BUF, EDT\$SA_CMD_END	0818
		04	000F4	RET	0822
	68	00	FB 000F5	15\$: CALLS #0, EDT\$CHK_CC	0839
	03	50	E8 000F8	BLBS R0, 16\$	
		31	000FB	BRW 1\$	
00000000G	FF	33	9E 000FE	16\$: MOVAB EDT\$ST_CMD_BUF, EDT\$SA_CMD_END	0842
	0D	00	E9 00105	BLBC KEYS_SEEN, 18\$	0844
	00	01	D0 00108	MOVL #1, EDT\$G_CC_DONE	
		04	11 0010F	BRB 18\$	0846
	50	01	D0 00111	17\$: MOVL #1, R0	0851
		04	00114	RET	
		50	D4 00115	18\$: CLRL R0	0852

EDT\$KEYCOM
V04-000

EDT\$KEYCOM - get a keypad command
EDT\$GET_KPADCMD - get a keypad command

B 7
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14-Sep-1984 12:23:21

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]KEYCOM.BLI;1

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(3)

EDT
V04

04 00117 RET

: Routine Size: 280 bytes. Routine Base: _EDT\$CODE + 0000

: 283 0853 1
: 284 0854 1 !<BLF/PAGE>

; R

;

EDT\$KEYCOM
V04-000

EDT\$KEYCOM - get a keypad command
EDT\$GET_KPADCMD - get a keypad command

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EDT
V04

: 286 0855 1 END
: 287 0856 1
: 288 0857 0 ELUDOM

: ! of module EDT\$KEYCOM

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	280	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[EDT.SRC]EDT.L32:1	377	3	0	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32:1	2	1	50	7	00:00.1
-\$255\$DUA28:[EDT.SRC]KEYPADDEF.L32:1	34	2	5	7	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$KEYCOM/OBJ=OBJ\$KEYCOM MSRC\$KEYCOM.BLI/UPDATE-(ENH\$KEYCOM)

: Size: 280 code + 0 data bytes
: Run Time: 00:16.4
: Elapsed Time: 00:19.8
: Lines/CPU Min: 3127
: Lexemes/CPU-Min: 8405
: Memory Used: 110 pages
: Compilation Complete

: S
: R
: E
: L
: M
: C

0135 AH-BT13A-SE
VAX/VMS V4.0

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